

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122121\
 Data File : VD071408.D
 Acq On : 21 Dec 2021 13:57
 Operator : VA/SY
 Sample : M5179-02
 Misc : 6.27G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 POST-EXCAVATION-BOTTOM-EAST

Quant Time: Dec 21 19:06:18 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

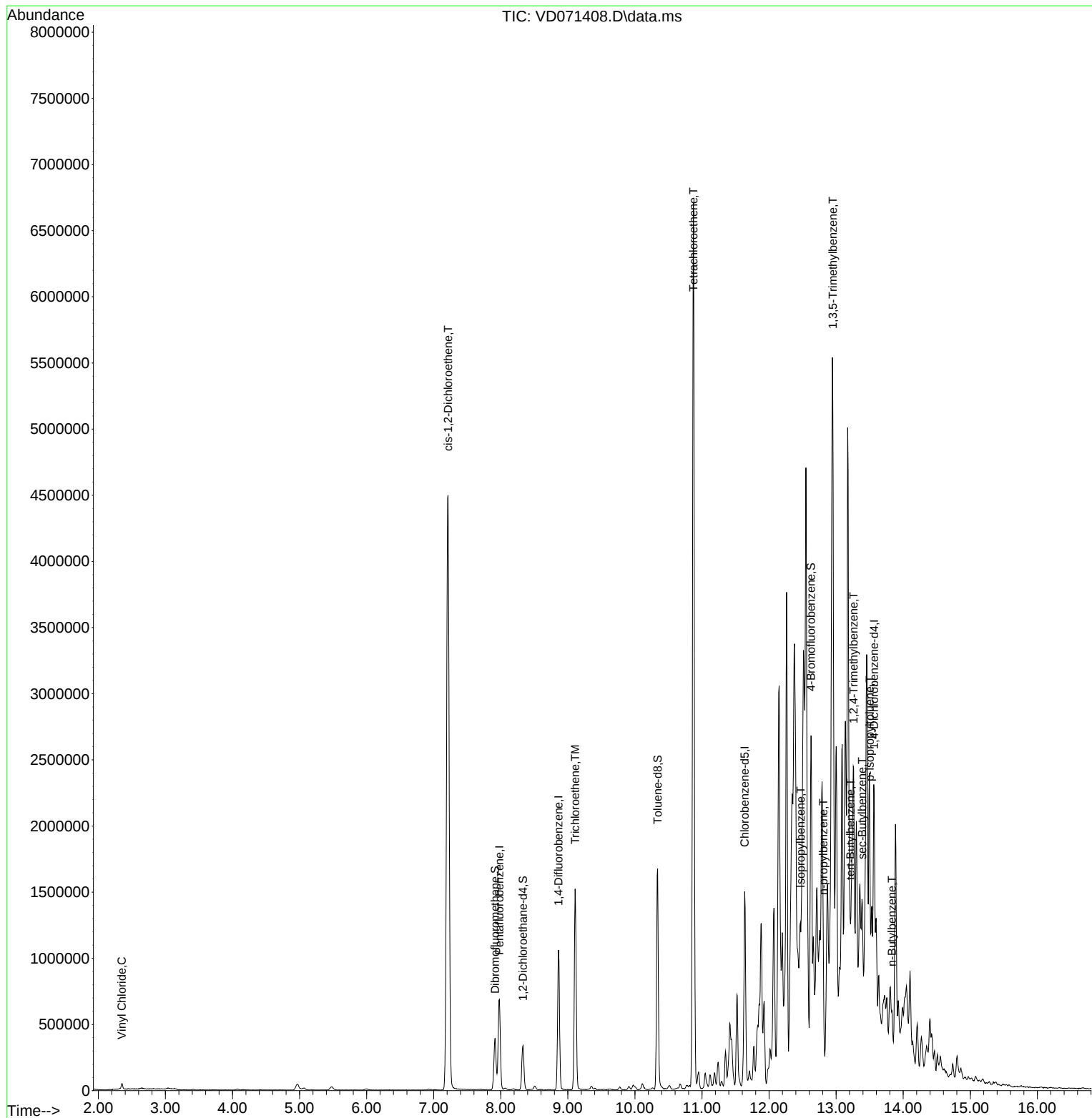
Internal Standards						
1) Pentafluorobenzene	7.979	168	482863	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	843326	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	768884	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	369314	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	268857	47.452	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	94.900%
35) Dibromofluoromethane	7.914	113	267892	49.885	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	99.760%
50) Toluene-d8	10.338	98	1061107	51.922	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	103.840%
62) 4-Bromofluorobenzene	12.626	95	422278	59.610	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	119.220%
Target Compounds						Qvalue
4) Vinyl Chloride	2.350	62	33491	5.511	ug/l	93
27) cis-1,2-Dichloroethene	7.214	96	2637402	462.004	ug/l	96
44) Trichloroethene	9.108	130	501355	87.828	ug/l	97
64) Tetrachloroethene	10.873	164	1381666	283.056	ug/l	95
73) Isopropylbenzene	12.473	105	66690	2.494	ug/l	98
78) n-propylbenzene	12.808	91	203305	6.105	ug/l	98
80) 1,3,5-Trimethylbenzene	12.949	105	209717	9.510	ug/l	96
83) tert-Butylbenzene	13.214	119	54635	2.885	ug/l	94
84) 1,2,4-Trimethylbenzene	13.261	105	888232	41.258	ug/l	99
85) sec-Butylbenzene	13.390	105	207636	7.179	ug/l #	66
86) p-Isopropyltoluene	13.502	119	105744	4.470	ug/l	95
89) n-Butylbenzene	13.832	91	156797	6.790	ug/l #	72

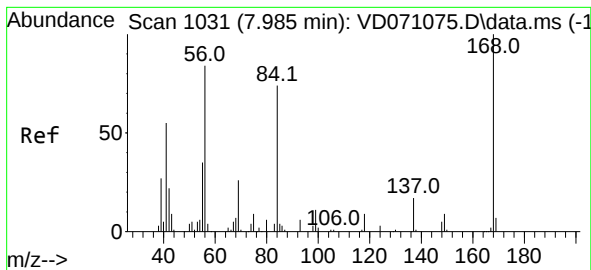
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

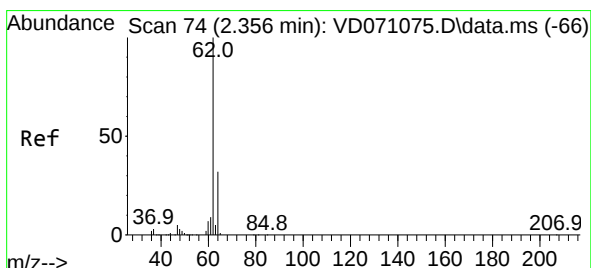
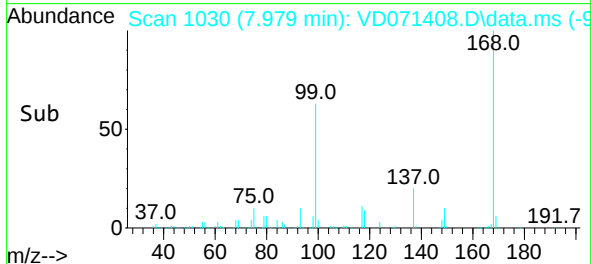
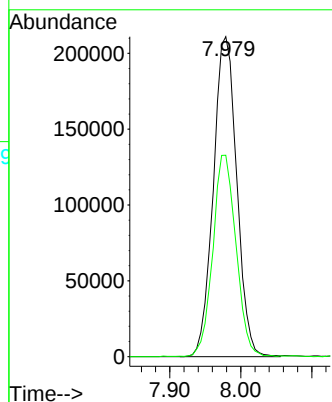
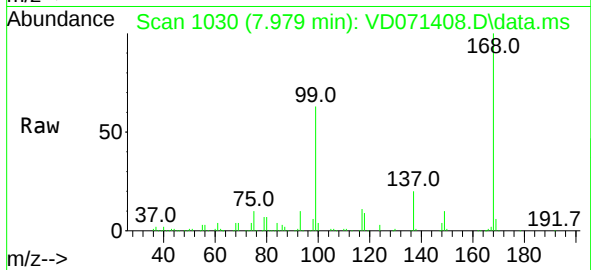




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071408.D
Acq: 21 Dec 2021 13:57

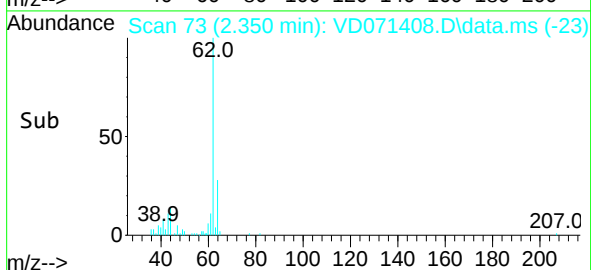
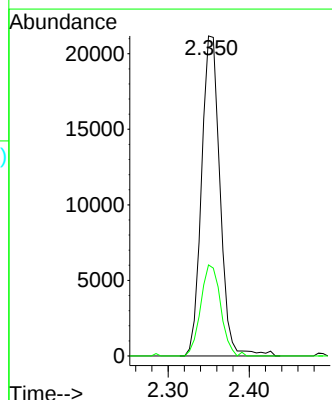
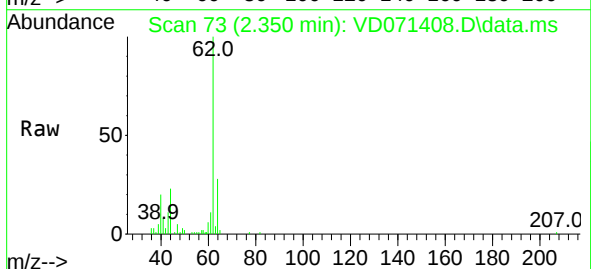
Instrument :
MSVOA_D
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST

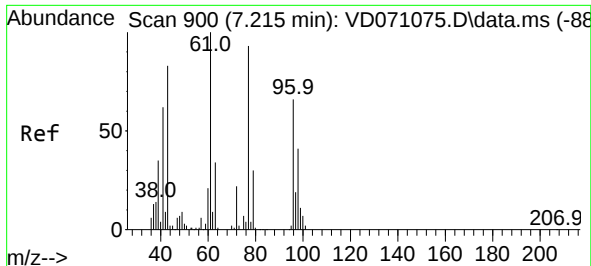
Tgt Ion:168 Resp: 482863
Ion Ratio Lower Upper
168 100
99 62.8 46.6 69.8



#4
Vinyl Chloride
Concen: 5.511 ug/l
RT: 2.350 min Scan# 73
Delta R.T. -0.006 min
Lab File: VD071408.D
Acq: 21 Dec 2021 13:57

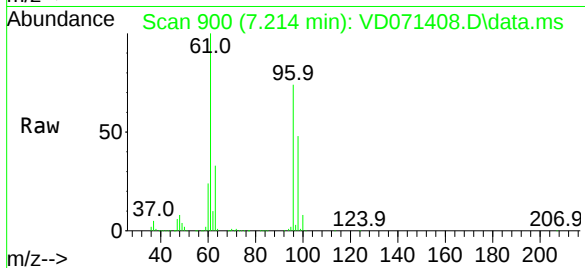
Tgt Ion: 62 Resp: 33491
Ion Ratio Lower Upper
62 100
64 28.4 26.0 39.0





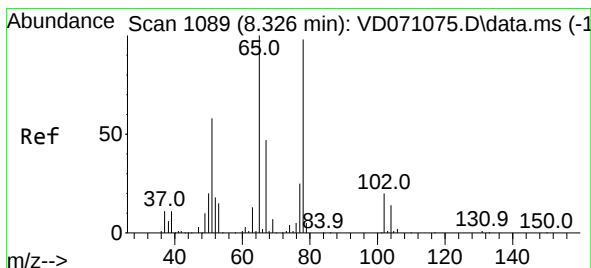
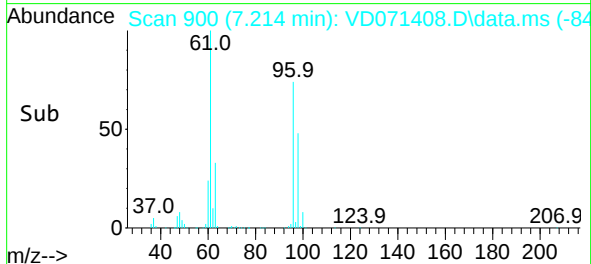
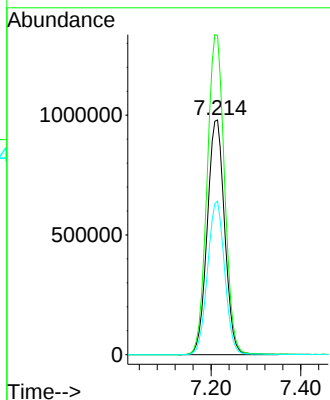
#27
 cis-1,2-Dichloroethene
 Concen: 462.004 ug/l
 RT: 7.214 min Scan# 90
 Delta R.T. -0.001 min
 Lab File: VD071408.D
 Acq: 21 Dec 2021 13:57

Instrument :
 MSVOA_D
 ClientSampleId :
 POST-EXCAVATION-BOTTOM-EAST



Tgt Ion: 96 Resp: 2637402

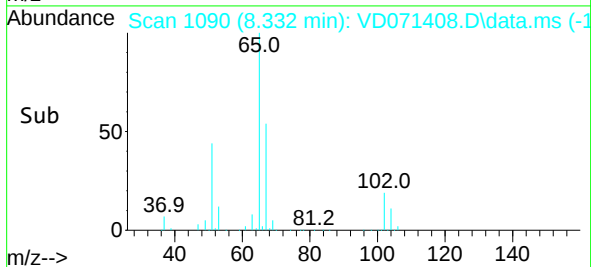
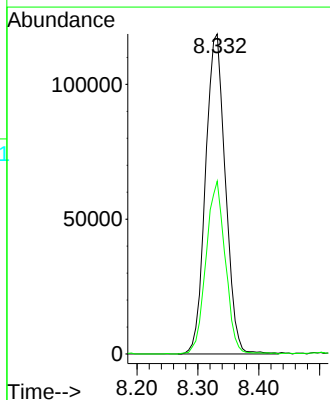
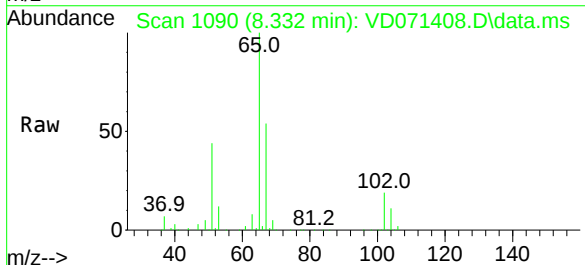
Ion	Ratio	Lower	Upper
96	100		
61	136.4	0.0	288.6
98	64.5	0.0	129.2

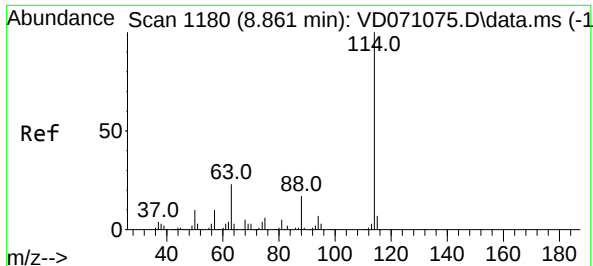


#33
 1,2-Dichloroethane-d4
 Concen: 47.452 ug/l
 RT: 8.332 min Scan# 1090
 Delta R.T. 0.006 min
 Lab File: VD071408.D
 Acq: 21 Dec 2021 13:57

Tgt Ion: 65 Resp: 268857

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071408.D

Acq: 21 Dec 2021 13:57

Instrument :

MSVOA_D

ClientSampleId :

POST-EXCAVATION-BOTTOM-EAST

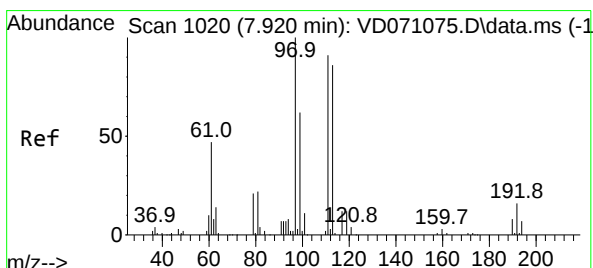
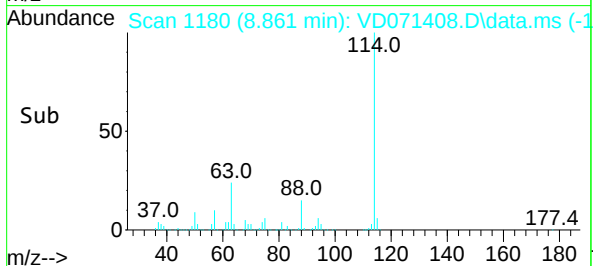
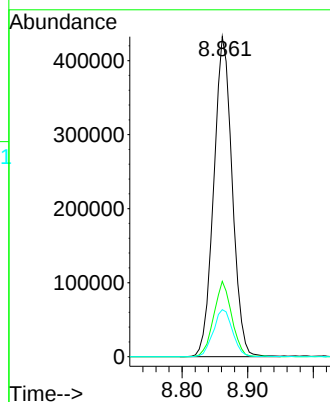
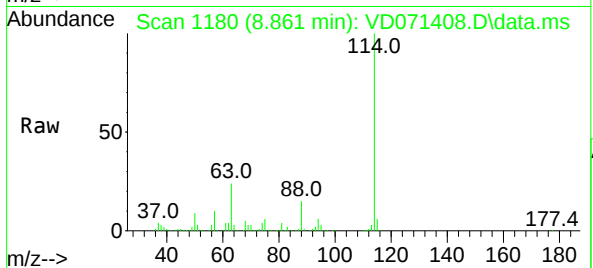
Tgt Ion:114 Resp: 843326

Ion Ratio Lower Upper

114 100

63 23.6 0.0 41.8

88 14.7 0.0 32.8



#35

Dibromofluoromethane

Concen: 49.885 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD071408.D

Acq: 21 Dec 2021 13:57

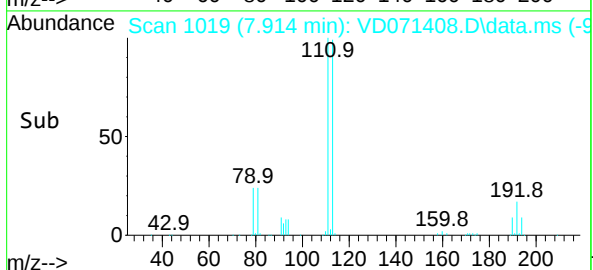
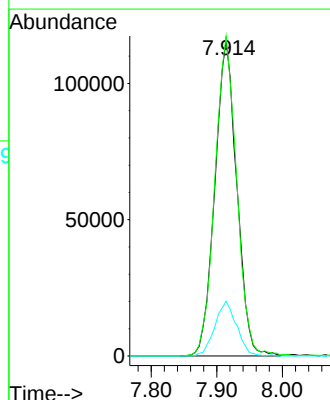
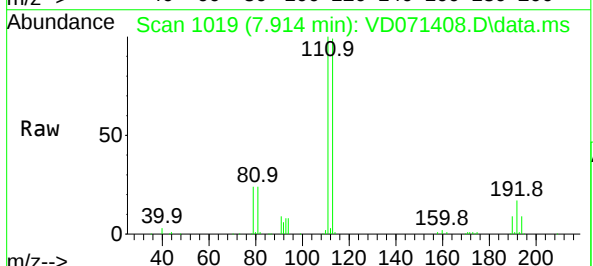
Tgt Ion:113 Resp: 267892

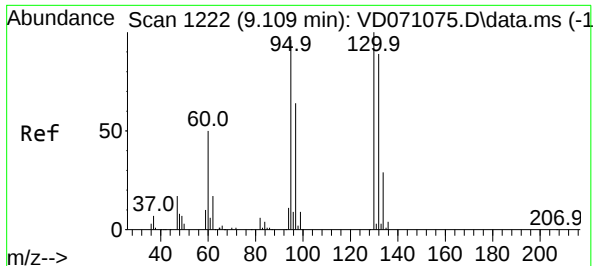
Ion Ratio Lower Upper

113 100

111 101.1 82.0 123.0

192 17.2 15.2 22.8

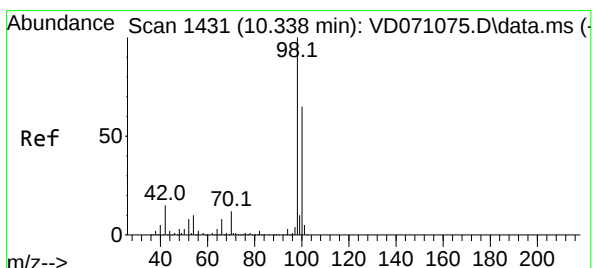
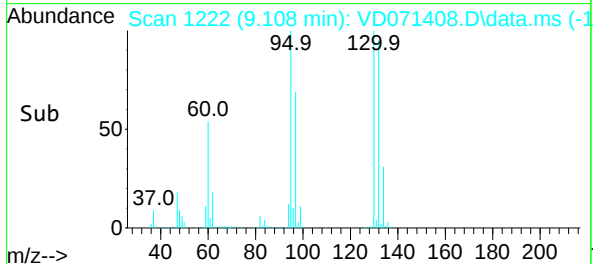
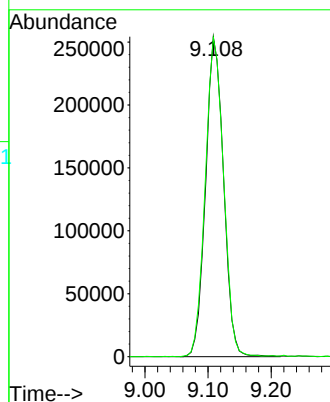
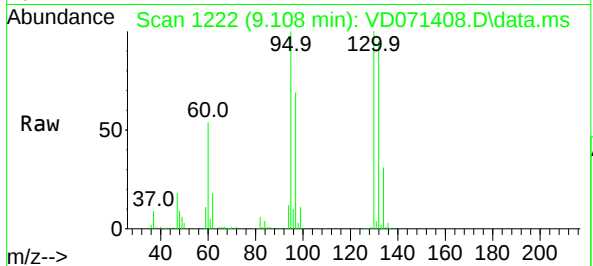




#44
Trichloroethene
Concen: 87.828 ug/l
RT: 9.108 min Scan# 11
Delta R.T. -0.001 min
Lab File: VD071408.D
Acq: 21 Dec 2021 13:57

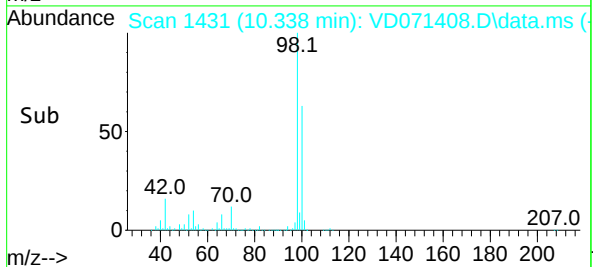
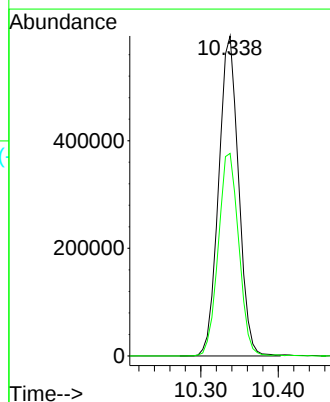
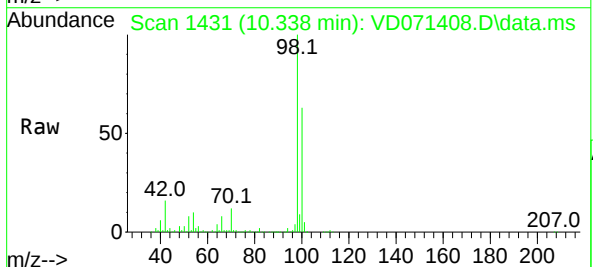
Instrument :
MSVOA_D
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST

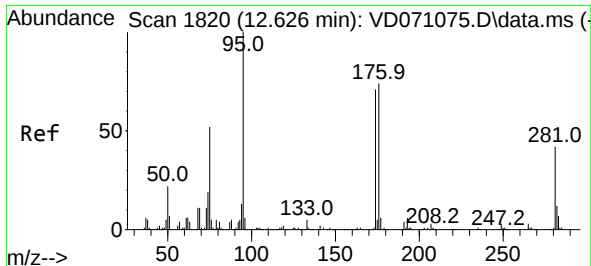
Tgt Ion:130 Resp: 501355
Ion Ratio Lower Upper
130 100
95 99.7 0.0 193.2



#50
Toluene-d8
Concen: 51.922 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD071408.D
Acq: 21 Dec 2021 13:57

Tgt Ion: 98 Resp: 1061107
Ion Ratio Lower Upper
98 100
100 65.1 51.8 77.6

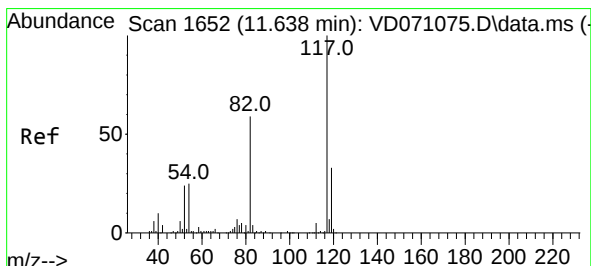
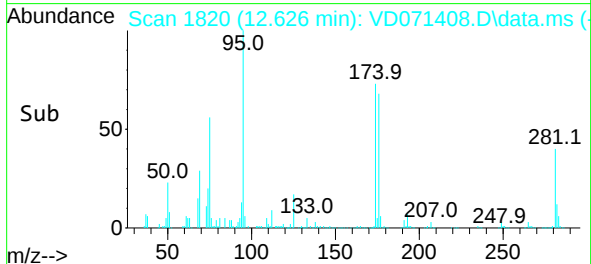
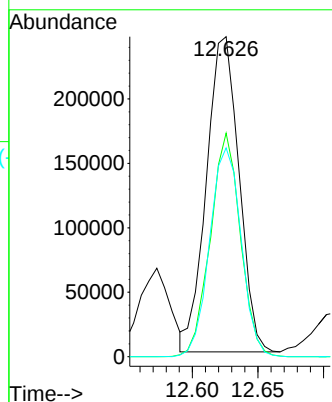
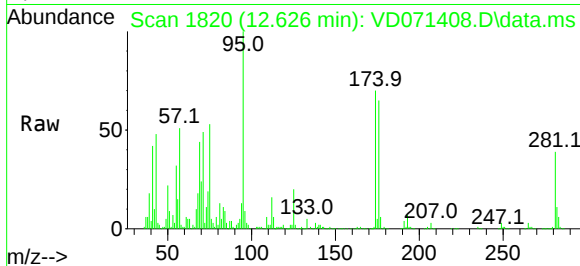




#62
4-Bromofluorobenzene
Concen: 59.610 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071408.D
Acq: 21 Dec 2021 13:57

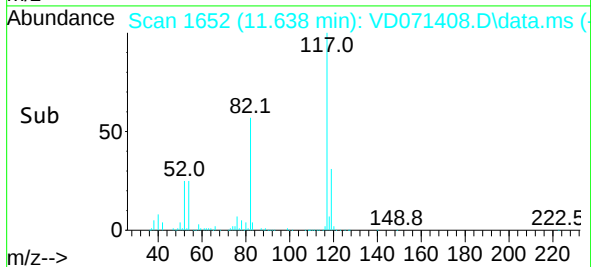
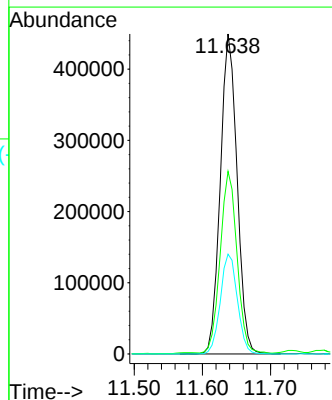
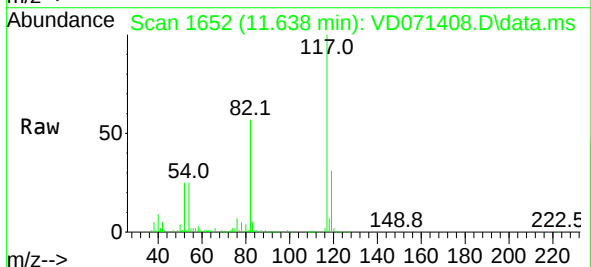
Instrument :
MSVOA_D
ClientSampleId :
POST-EXCAVATION-BOTTOM-EAST

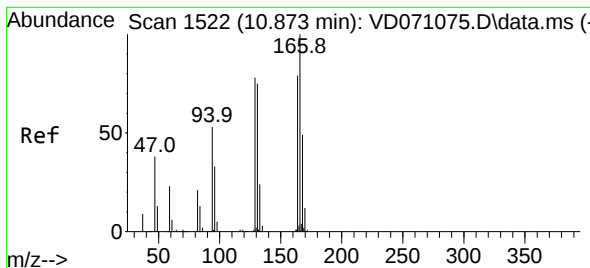
Tgt Ion: 95 Resp: 422278
Ion Ratio Lower Upper
95 100
174 65.4 0.0 159.4
176 64.0 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071408.D
Acq: 21 Dec 2021 13:57

Tgt Ion:117 Resp: 768884
Ion Ratio Lower Upper
117 100
82 56.7 44.7 67.1
119 31.2 26.2 39.4





#64

Tetrachloroethene

Concen: 283.056 ug/l

RT: 10.873 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD071408.D

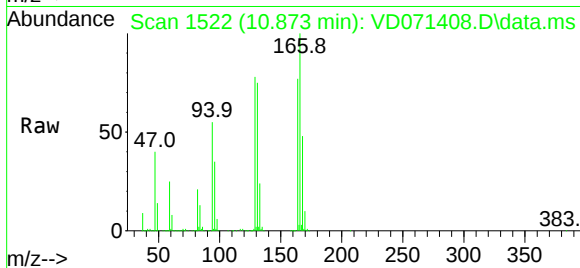
Acq: 21 Dec 2021 13:57

Instrument :

MSVOA_D

ClientSampleId :

POST-EXCAVATION-BOTTOM-EAST



Tgt Ion:164 Resp: 1381666

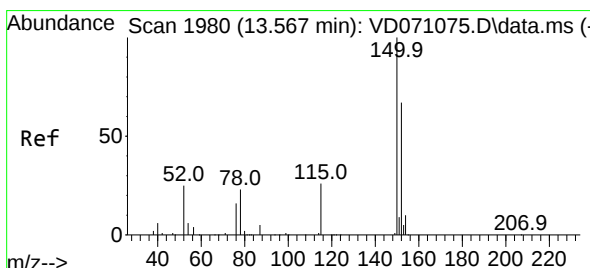
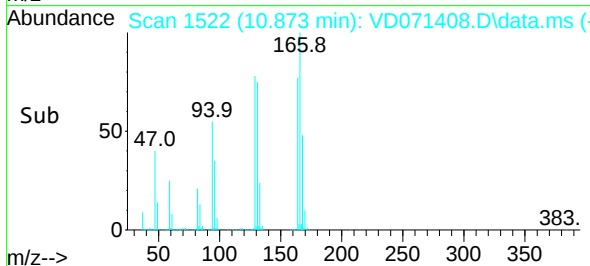
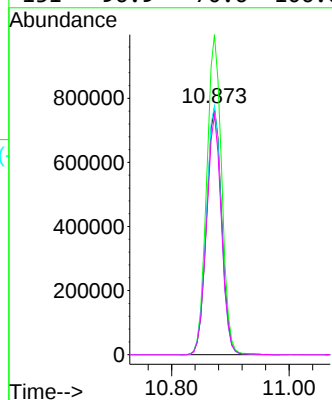
Ion Ratio Lower Upper

164 100

166 129.4 102.6 153.8

129 100.4 75.4 113.0

131 96.9 70.6 106.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.567 min Scan# 1980

Delta R.T. -0.000 min

Lab File: VD071408.D

Acq: 21 Dec 2021 13:57

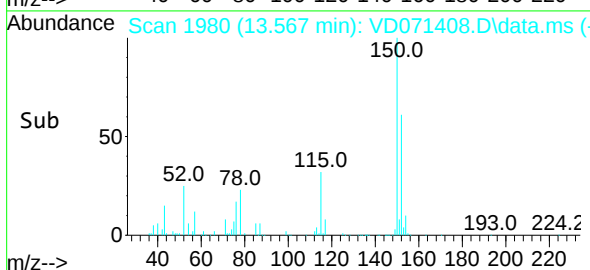
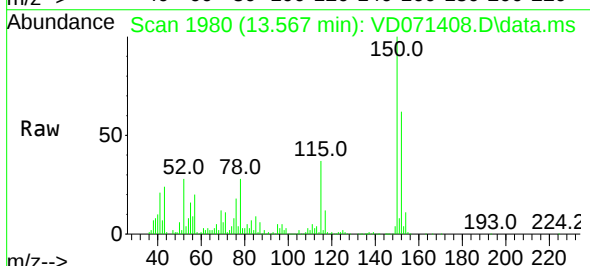
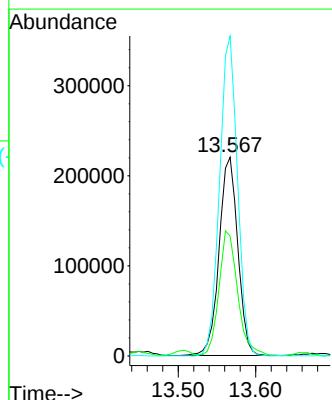
Tgt Ion:152 Resp: 369314

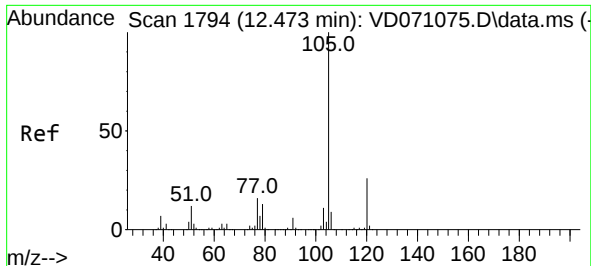
Ion Ratio Lower Upper

152 100

115 63.1 29.8 89.3

150 154.3 0.0 349.2

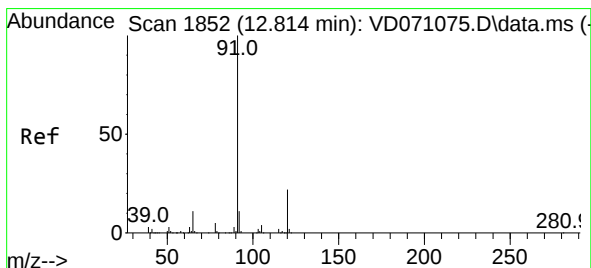
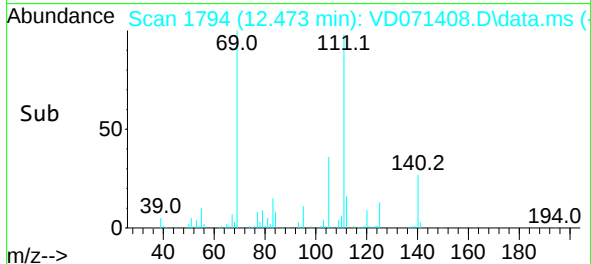
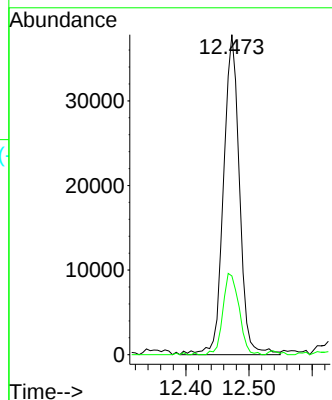
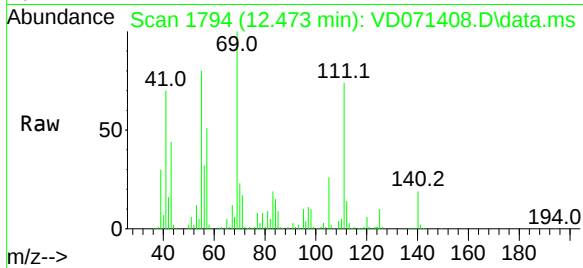




#73
Isopropylbenzene
Concen: 2.494 ug/l
RT: 12.473 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD071408.D
Acq: 21 Dec 2021 13:57

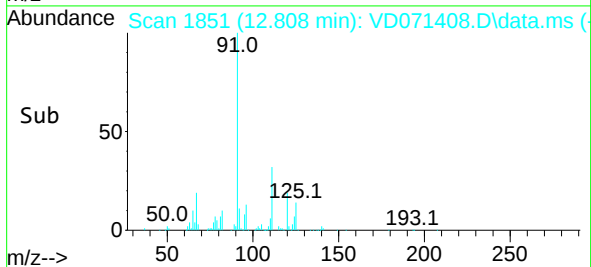
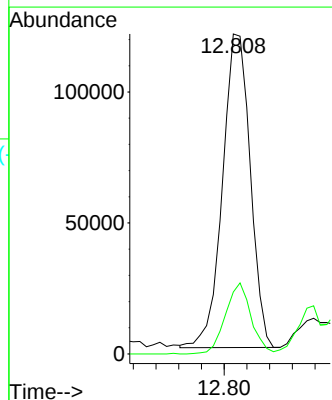
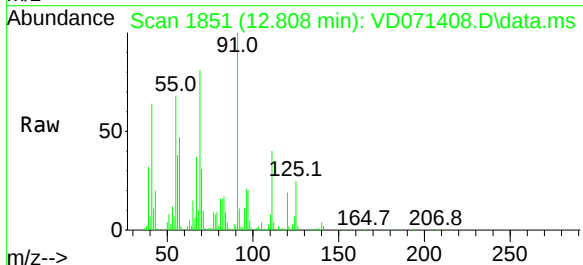
Instrument :
MSVOA_D
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POST-EXCAVATION-BOTTOM-EAST

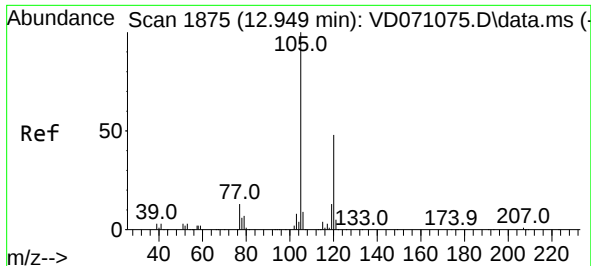
Tgt Ion:105 Resp: 66690
Ion Ratio Lower Upper
105 100
120 25.5 13.2 39.5



#78
n-propylbenzene
Concen: 6.105 ug/l
RT: 12.808 min Scan# 1851
Delta R.T. -0.006 min
Lab File: VD071408.D
Acq: 21 Dec 2021 13:57

Tgt Ion: 91 Resp: 203305
Ion Ratio Lower Upper
91 100
120 20.9 10.9 32.9

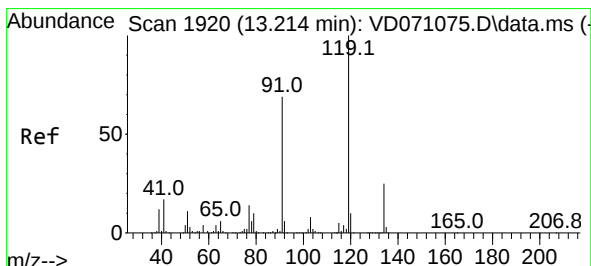
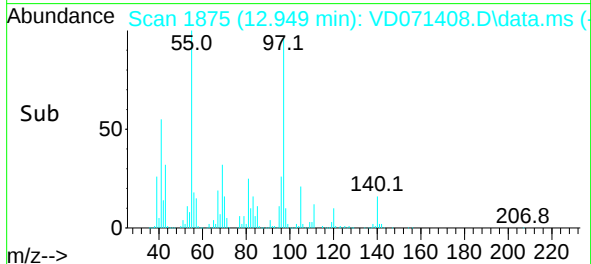
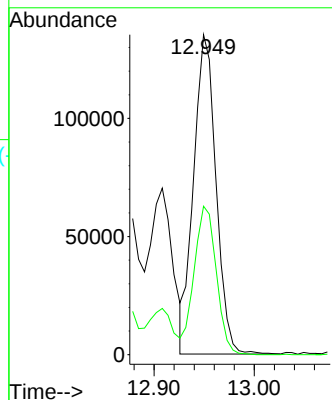
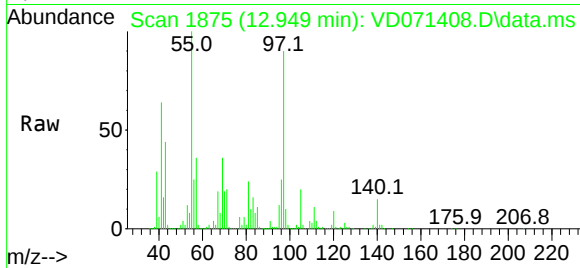




#80
1,3,5-Trimethylbenzene
Concen: 9.510 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VD071408.D
Acq: 21 Dec 2021 13:57

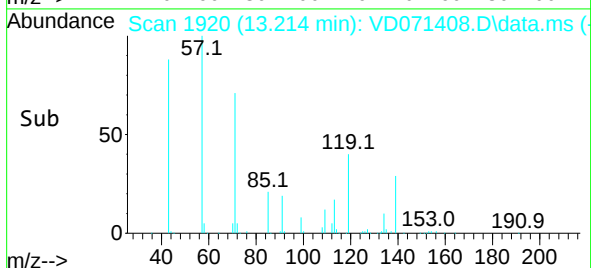
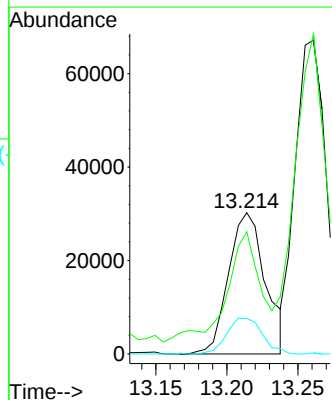
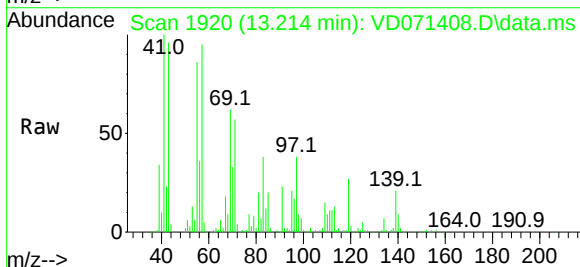
Instrument : MSVOA_D
ClientSampleId : POST-EXCAVATION-BOTTOM-EAST

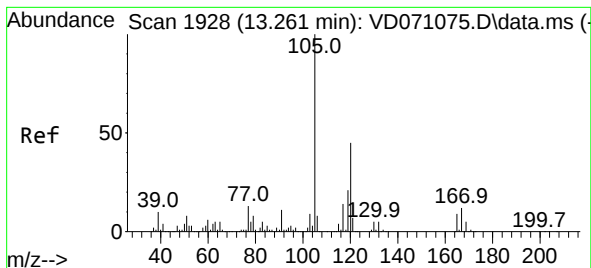
Tgt Ion:105 Resp: 209717
Ion Ratio Lower Upper
105 100
120 46.4 24.6 73.8



#83
tert-Butylbenzene
Concen: 2.885 ug/l
RT: 13.214 min Scan# 1920
Delta R.T. -0.000 min
Lab File: VD071408.D
Acq: 21 Dec 2021 13:57

Tgt Ion:119 Resp: 54635
Ion Ratio Lower Upper
119 100
91 70.7 32.5 97.5
134 24.4 13.2 39.6





#84

1,2,4-Trimethylbenzene

Concen: 41.258 ug/l

RT: 13.261 min Scan# 1928

Delta R.T. 0.000 min

Lab File: VD071408.D

Acq: 21 Dec 2021 13:57

Instrument :

MSVOA_D

ClientSampleId :

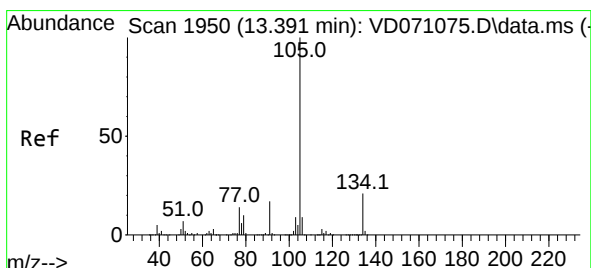
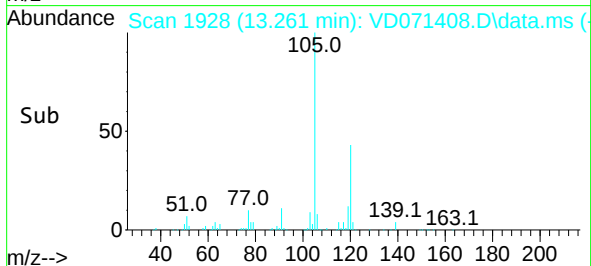
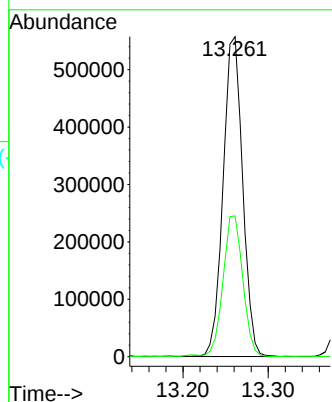
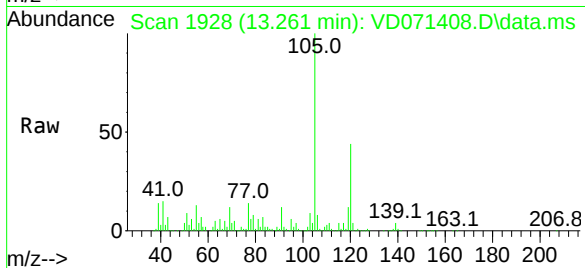
POST-EXCAVATION-BOTTOM-EAST

Tgt Ion:105 Resp: 888232

Ion Ratio Lower Upper

105 100

120 45.1 22.9 68.7



#85

sec-Butylbenzene

Concen: 7.179 ug/l

RT: 13.390 min Scan# 1950

Delta R.T. -0.001 min

Lab File: VD071408.D

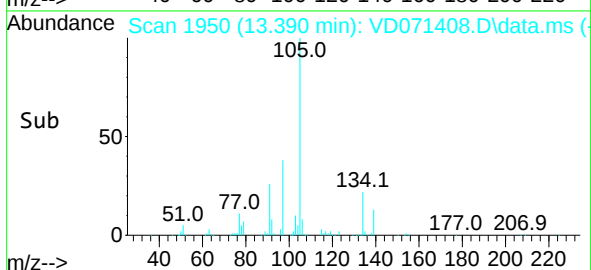
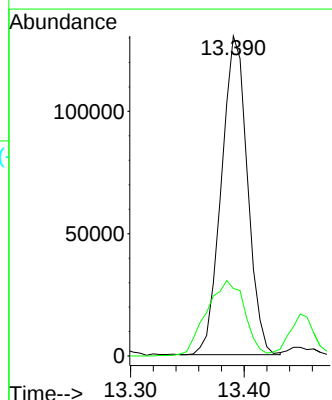
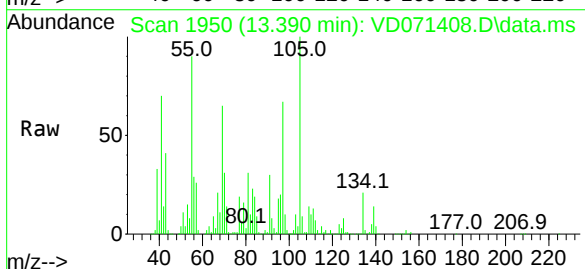
Acq: 21 Dec 2021 13:57

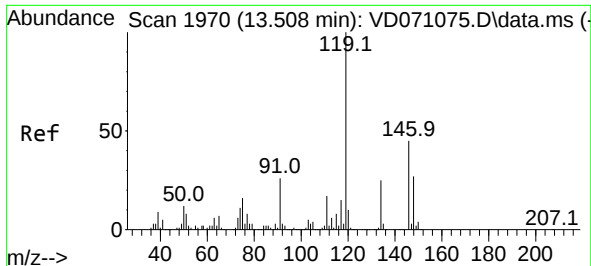
Tgt Ion:105 Resp: 207636

Ion Ratio Lower Upper

105 100

134 34.8 9.7 28.9#

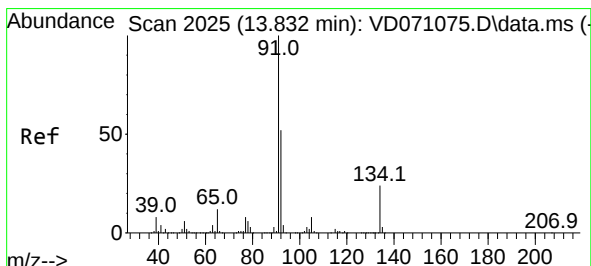
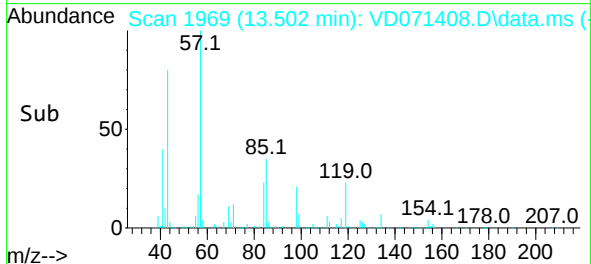
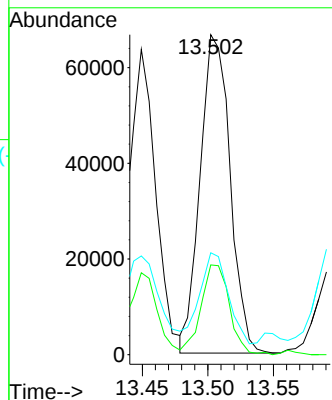
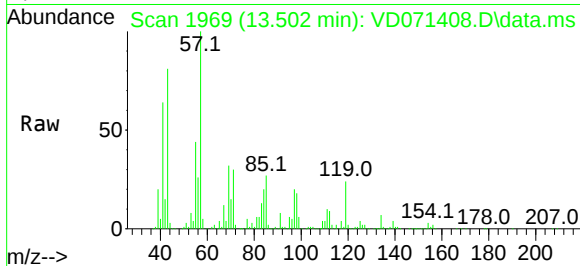




#86
p-Isopropyltoluene
Concen: 4.470 ug/l
RT: 13.502 min Scan# 1970
Delta R.T. -0.006 min
Lab File: VD071408.D
Acq: 21 Dec 2021 13:57

Instrument : MSVOA_D
ClientSampleId : POST-EXCAVATION-BOTTOM-EAST

Tgt Ion:119 Resp: 105744
Ion Ratio Lower Upper
119 100
134 26.9 13.0 38.9
91 27.3 11.4 34.2



#89
n-Butylbenzene
Concen: 6.790 ug/l
RT: 13.832 min Scan# 2025
Delta R.T. -0.000 min
Lab File: VD071408.D
Acq: 21 Dec 2021 13:57

Tgt Ion: 91 Resp: 156797
Ion Ratio Lower Upper
91 100
92 41.4 27.3 81.9
134 0.0 12.3 36.9#

